C I T Y O F M U R R I E T A

26442 Beckman Court, Murrieta, CA 92562
Telephone: 909-304-CITY (2489) Fax: 909-698-4509

Internet Address:
http.//murrieta.ca.us

December 20, 2001

Mr. John Robertus
Executive Director
SDRWCD
Sky Park Court, 100
San Diego, CA 92123-4340

Dear Mr. Robertus:

Thank you for your consideration of our joint application with Murrieta County Water District for funds to improve water quality as part of our Line E lateral storm drain project. To complete our application, your staff has requested the following additional information.

The Line E project is a funded Capital Improvement Project for the City of Murrieta. It is currently under design by Riverside County Flood Control and is expected to be under construction during the summer of 2002. The funds we are receiving are not identified in the project and will be in addition to the scope of work. I have attached my most recent correspondence with Riverside County Flood Control detailing the time line.

The project is scheduled to be under construction by summer of 2002. The area that is being considered for wetlands is the first phase of the project and should be completed by October 1, 2002. The project as a whole, however, requires extensive work and utility relocation in Ivy Street and will not be completed until spring of 2003.

The wetlands area to be developed is above and beyond what is being considered for the project. For your review, I have attached our scope of work provided to the ACOE for our permit.

The wetlands area being proposed is the termination of Line E as it enters Murrieta Creek. Line E is a seasonal tributary that handles seasonal as well as nuisance water from a portion of the California Oaks Specific Plan, a residential community of over 6,000 homes. With the new ACOE design of Murrieta Creek, all of the City's lateral storm drain projects need to be re-designed due to the lack of fall for the last one to two hundred yards. As a result, wetland areas are being created to address the design problem for this project as well as of the other lateral storm drain projects in the City. An open channel immediately east of Jefferson Avenue and north of Ivy Street is handling sediment and trash removal.

Hopefully, this answers all of your questions so that you can continue processing our application. Again, thank you for your consideration of our project. I look forward to working with you on Line E and our other lateral storm drain projects.

Respectfully,

James Miller
Development Services Director

JM/kak

cc: Wayne Spencer

CITY OF MURRIETA
COMMUNITY DEVELOPMENT DEPARTMENT **Initial Study**

I. BACKGROUND INFORMATION

1. **Project Title:** LINE E

2. **Lead Agency:** City of Murrieta
   Address: 26442 Beckman Court
   Murrieta, CA 92562-8850

3. **Contact Person:**
   Phone Number:

4. **Project Location:** City of Murrieta: Township 7 South, Range 3 West of USGS 7.5" Series Murrieta Topographic Quadrangle; improvements along Ivy Street / Los Alamos Road and connecting infrastructure between Interstate 15 and Murrieta Creek

5. **Project Sponsor:**

II. PROJECT ASSESSMENT

Description in blue was suggested eliminated by Bob Cullen at Flood Control. Lisa believes that this much detail is necessary for RWQCB to accept it.

1. Project Description:

The City of Murrieta proposes to improve the existing drainage of Line E (Figure 1), one of the main drainage channels in the City of Murrieta, in order to achieve flood control objectives of long term protection for the roads, underground utilities and existing development. Line E is located in the City of Murrieta in Township 7 South, Range 3 West of USGS 7.5" Series Murrieta Topographic Quadrangle. The existing alignment of Line E as designated in the Master Drainage Plan originates south of Kalmia at the I-15 Freeway (I-15) and flows due south until intersecting Ivy Street. The watercourse extends approximately 7,500-linear feet from the I-15 west to Murrieta Creek and drains approximately 580-acres (Figure 2). Line E flows through Old Town Murrieta draining existing commercial and residential developments and vacant land. It drains areas zoned for Community Commercial, Professional Commercial, Recreational/ Resort Commercial, Multiple Use, Civic/Institutional, Equestrian Residential, Single Family 1 Residential, Single Family 2 Residential and Multi Family 1 Residential. Recent developments east of the I-15 have installed culverts to Line E, conveying flows westerly of the I-15. Existing development west of the I-15 is subject to periodic flooding under current conditions.

In the downstream portion bounded by Kalmia Street, Jefferson Street, Ivy Street and I-15, Line E is predominately a naturally incised earthen channel; however, portions of existing Line E include reconstructed channel areas with underground drainage facilities or storm drains. Line E intersects Los Alamos Road approximately 400 feet east of Jefferson Avenue (Los Alamos Road becomes Ivy Street at Jefferson Ave.) Line E flows down the center of Los Alamos/Ivy Street by way of a V-shaped roadway. Flows exit Ivy Street at a cross gutter 650-feet southwest of Washington Avenue and then flow overland to Murrieta Creek. City officials indicate that Ivy Street floods annually requiring substantial removal of debris.

The City of Murrieta proposes to construct drainage improvements in the portion of Line E west of the I-15 freeway. The proposed project will include installation of drainage channels, access roads, road crossings, culverts, storm drains and fencing. A trapezoidal earthen channel is proposed to be constructed from Murrieta Creek northeasterly 1,500-feet. The proposed channel will be 6.5-feet deep with a 20-foot wide base. The eastern 100-feet of the channel will be lined with three-feet of rock protection. The channel will be constructed in a 128.5-foot wide right of way. A 3-inch thick, 15-foot wide area along both sides of the length of the channel will be covered with crushed slag for vehicular access. A 6-foot high chain link fence will be installed along the extent of the right-of-way with 14-foot wide drive gates located at approximately the intersection of New Clay Street. The City of Murrieta proposes to abandon New Clay Street at the intersection with the proposed channel as a separate objective from Line E.

East of the trapezoidal channel transition a 550-foot long 14-foot wide by 7-foot high RCB will curve and run northwest parallel to Washington Avenue and thence curve northeast parallel to Ivy Street. A 1,038-foot long 14-foot wide by 6-foot high RCB will be constructed upstream of the 7-foot high RCB via linear transition. A 1,338-foot long 10-foot wide by 5-foot high RCB will be constructed upstream of the 6-foot high RCB upstream of which a 10-foot transition to a 732-foot long 84-inch diameter reinforced concrete pipe (RCP) will be constructed. The 84-inch RCP will curve north approximately 600 feet east of the intersection of Jefferson Avenue and Ivy Street in order to collect flows from an unlined, open trapezoidal channel that was constructed as part of previously permitted improvements to the upstream drainage system and are not part of this project. An overflow was left in the previously permitted Madison Apartments Mitigation Area channel to maintain the storm flows through the parcel commonly referred to as the Smith Parcel that outlets into Line E 400 feet east of the intersection of Jefferson Avenue and Ivy Street. As part of the proposed Line E project, the overflow in the Madison Apartments Mitigation Area that maintains the natural drainage course flowing southeasterly through the Smith Parcel will be removed and the existing ?-feet of natural drainage will be filled. This is the proposed end point of Line E drainage improvements.

Bob suggested replacing the above paragraph with the following, but further discussion indicates that some of this is incorrect:
Upstream of the open trapezoidal channel, the facility becomes a Reinforced Concrete Box Culvert (RCB). This RCB runs upstream in Washington Avenue to Ivy, then northeast to Jefferson Avenue (about 3200 feet total). At Jefferson Avenue the facility transitions to Reinforced Concrete Pipe (RCP) and proceeds an additional 600-feet up Ivy (actually Los Alamos at this point) where it turns north to collect flows from an unlined open trapezoidal channel. The 10,000-foot long open channel conveys flows from another RCP storm drain that collects flows at 3 separate road culverts near the intersection of Juniper Street and Madison Avenue. The intersection of Madison avenue and Juniper Street can be considered to be the upstream terminus of the Line E drainage improvements as proposed under this project.

A second drainage alignment, to be known as Line E-2 (Figure 2), is proposed to branch northwest from Line E west of the intersection of Adams Avenue and Ivy Street and parallel the southwestern side of Adams Avenue in a northwesterly direction. A 1,400-foot long 66-inch diameter curved RCP that will extend to Juniper Avenue will be installed and covered in a concrete slurry. The existing underground culvert under the intersection of Ivy Street and Adams Avenue will be abandoned after cutting and removing interfering portions and plugging remaining portions. A 928-foot long, 60-inch diameter RCP will connect upstream of the 66-inch diameter curved RCP. This RCP will terminate on Adams Avenue immediately east of the intersection with Juniper Street and is the proposed end point of Line E-2 drainage improvements.

Catch basins will collect flows at various points along the project alignment where local tributary flows would cross the proposed facility.

A catch basin will collect flows from the east side of Washington Avenue and convey them via an approximately 100-foot long 24-inch diameter RCP into the 14-foot wide by 7-foot high RCB and thence into the trapezoidal channel. A total of four catch basins will be installed to collect flows from the east and west sides of Los Alamos Road/Ivy Street on either side of Adams Avenue to be conveyed into the 14-foot wide by 6-foot high RCB via 24-inch wide RCPs and thence downstream. Flows from each of the catch basins on the west sides of Los Alamos Road/Ivy Street will be conveyed via two 30-foot long RCP into the 10-foot transition RCP.

All utilities crossing or paralleling the proposed Line E alignment will be protected in place or required to be relocated by the corresponding agency unless otherwise noted. Standard manholes will be installed along the alignment to provide access. All reconstruction and resurfacing of existing curbs, sidewalks and other improvements will be reconstructed in kind at the same locations and elevations as the existing improvements, unless otherwise noted. The existing sewer lines in Ivy Street will be relocated as part of the project.

Excess materials become the property of the contractor. The contractor will be required to obtain all necessary grading permits and any other permits required to dispose of the material in a legal manner.

Construction of the proposed Line E and Line E-2 drainage improvements will require short term road closures and, therefore, detouring around active areas of construction. Roads would be open at night when workers are not present. The entire project is expected to be completed in 100 working days once construction commences.

2. Description of the Project Site:

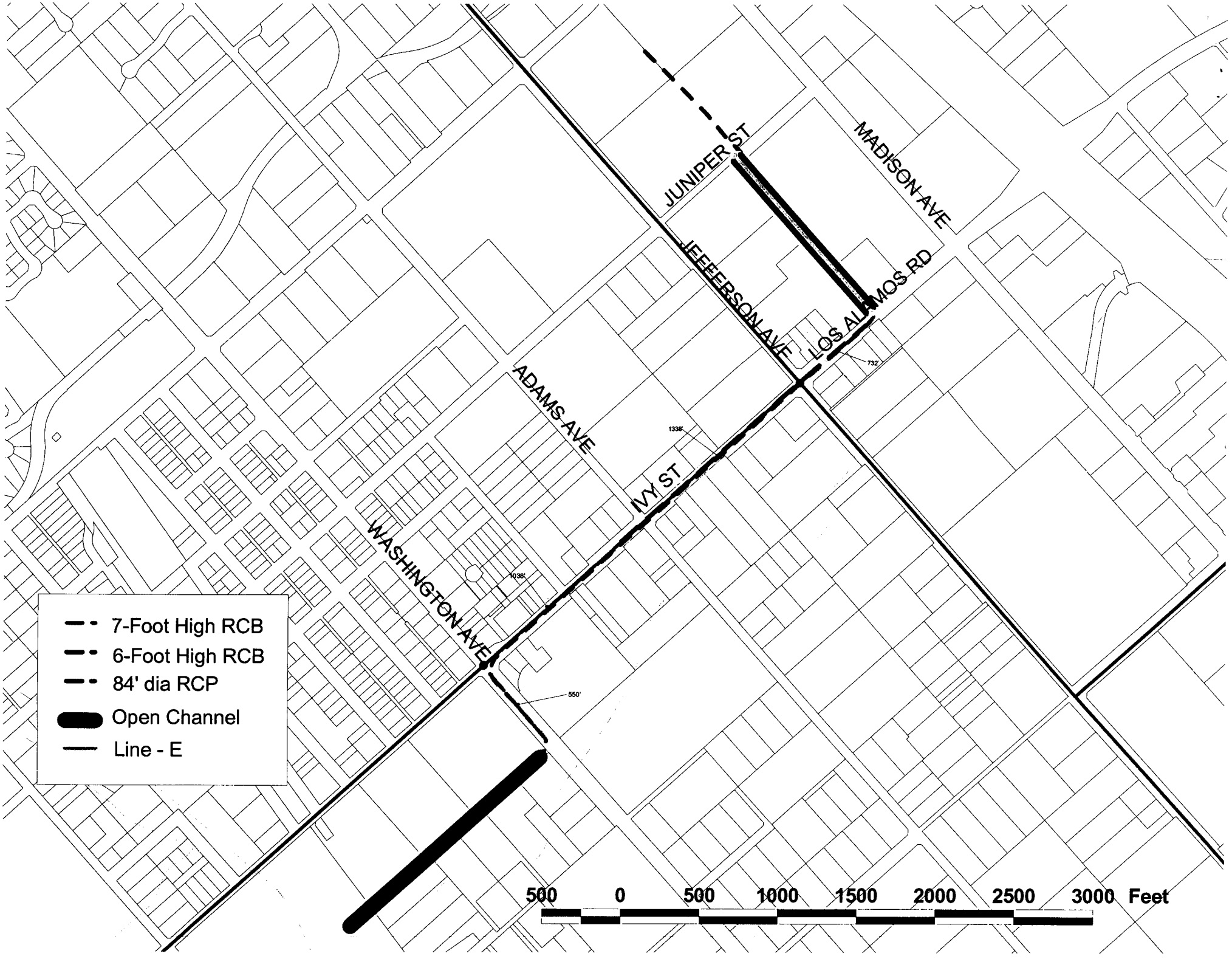
In the area where Line E flows into Murrieta Creek, Murrieta Creek is an unimproved natural floodplain with occasional earthen levees.

3. Land Uses: Community Commercial, Professional Commercial, Recreational/ Resort Commercial, Multiple Use, Civic/Institutional, Equestrian Residential, Single Family 1 Residential, Single Family 2 Residential and Multi Family 1 Residential.

4. General Plan Designation:

5. Zoning:

6. Other Agencies whose approval may be required: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MADISON AVE
JEFFERSON AVE
LOS ALAMOS RD
ADAMS AVE
IVY ST
WASHINGTON AVE
732'
1338'
1038'
550'
7-Foot High RCB
6-Foot High RCB
84' dia RCP
Open Channel
Line - E
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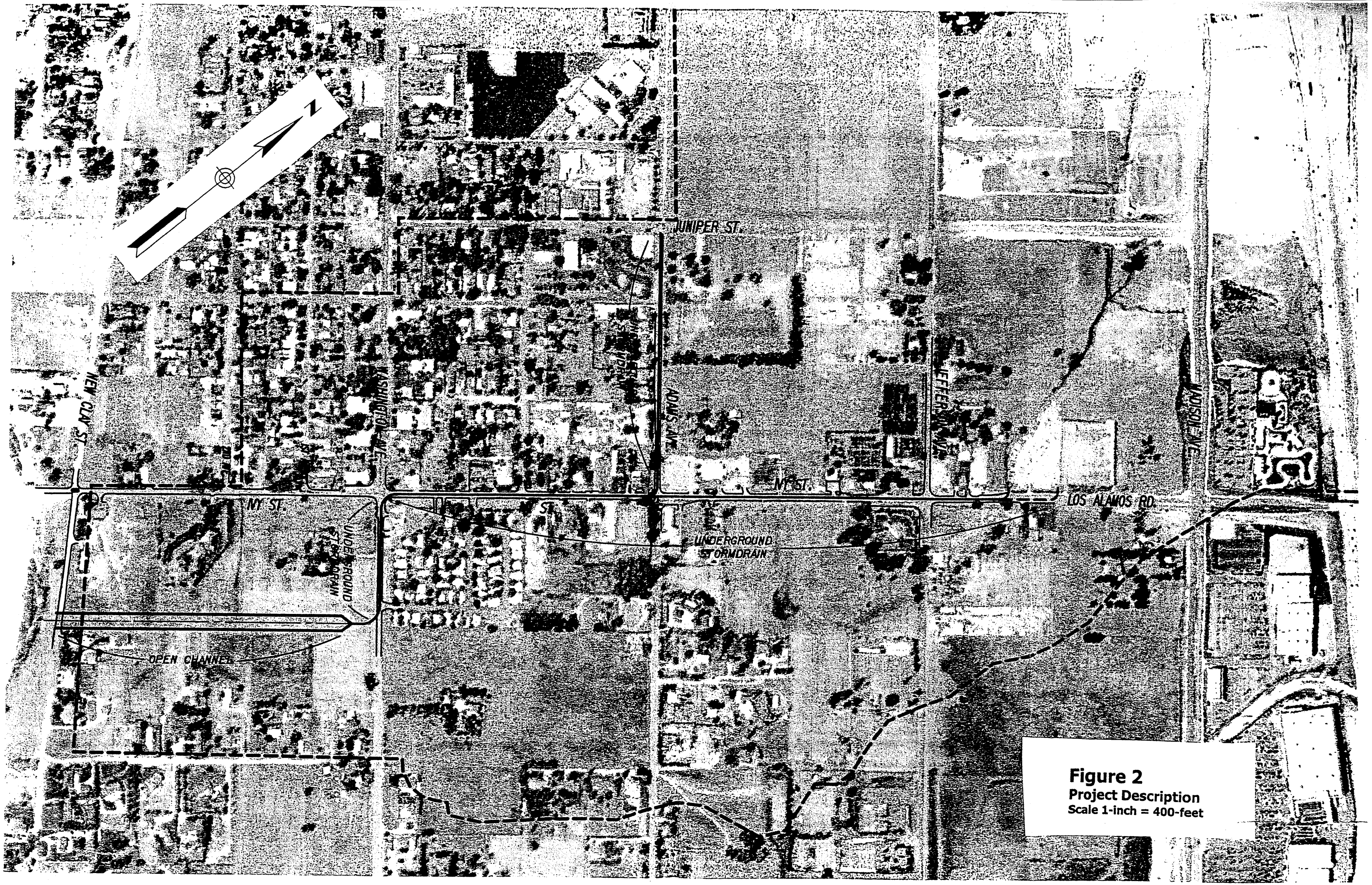

Figure 2
Project Description
Scale 1-inch = 400-feet

LINE E

DAVID P. ZAPPE
General Manager-Chief Engineer

1995 MARKET STREET
RIVERSIDE, CA 92501
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72714.1

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

August 23, 2001

CITY OF MURRIETA

AUG 27 2001

RECEIVED
ENGINEERING DEPT.

Mr. Dan Clark
Engineering Manager
City of Murrieta
26442 Beckman Court
Murrieta, CA 92562

Dear Mr. Clark:

Re: Murrieta MDP Line E and E-2
Project Nos. 7-0-0130 and 7-0-0138

This letter outlines the points covered in our meeting yesterday, Wednesday, August 22, 2001, at your City offices. Present at that meeting were: Dan Clark, Ed Basubas and Jim Miller from the City of Murrieta; Jeffrey Sims from Western Municipal Water District; Larry Comstock from Murrieta County Water District; and Clyde Johnson, Bob Cullen and Arlene Chun from the District.

1. Lead Agency for Project
   The District suggested that the City administer the project as lead agency as ongoing environmental permitting negotiations seem to be based more on land use planning by the City than pure flood control. City agreed.

2. Parallel Sewer
   The proposed new line is a 12" VCP with ductile iron portion for section that will be constructed directly under a 14' x 7' RCB. MCWD prefers to have a higher slope, ideally S=0.004. The District will proceed with 12" diameter pipe and will increase grade as much as possible. The District will design the sewer to MCWD specifications and remain within street right of way from New Clay Street to Adams Avenue.

3. Mitigation Environmental Restoration & Recharge Features
   MCWD is willing to allow use of some of its property for environmental mitigation/enhancement. The amount of area needed and mitigation design concept, however, must still be reviewed and approved by MCWD. City will put together "MOA" to this effect ASAP.

4. Open Channel Design Upstream of Los Alamos
   The City stated that this project should assume that impacts to existing riparian area on the "Smith" property are unavoidable consequences of this project.

5. Agreement Outline of Respective Responsibilities
   a. The District will: design flood control facilities; design new parallel sewer; design any mitigation features; provide right-of-way engineering services; inspect construction of flood control facilities; and operate/maintain flood control facilities upon District acceptance.

b. The City of Murrieta will: administer combined construction contract for flood control facilities, new parallel sewer, and any mitigation features; acquire necessary land for permanent right-of-way and any temporary construction easements; relinquish right-of-way and flood control facilities to the District upon completion of project construction.

c. The Murrieta County Water District will: inspect construction – at no cost – of new parallel sewer line; operate/maintain new parallel sewer line upon acceptance of sewer construction as complete. MCWD shall have the opportunity to review and approve the design of any mitigation features to be constructed on their property.

This is our understanding of the points covered in our monthly meeting. Please contact Arlene Chun, project engineer, at 909.955.1333, or me at 909.955.1205 if you have any questions or comments, thank you.

Very truly yours,

ROBERT J. CULLEN
Senior Civil Engineer

c: Murrieta County Water District
Attn: Larry Comstock, Development Services Manager
Western Municipal Water District
Attn: Jeffrey Sims, Principal Engineer

ABC:slj